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09/905,130	07/13/2001	Philippe Gentric	FR 000075	3857	
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PHILIPS INTELLECTUAL PROPERTY & STANDARDS			CHEA, P	CHEA, PHILIP J	
	P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510			PAPER NUMBER	
			2153		
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/905,130	GENTRIC, PHILIPPE
Office Action Summary	Examiner	Art Unit
	Philip J. Chea	2153
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim iill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONED	I. lely filed the mailing date of this communication. O (35 U.S.C. § 133).
Status		
1) ☐ Responsive to communication(s) filed on 29 At 2a) ☐ This action is FINAL. 2b) ☐ This 3) ☐ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. ace except for formal matters, pro	
Disposition of Claims		
4) ⊠ Claim(s) <u>1-20</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-20</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.	
Application Papers		
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on <u>09 March 2006</u> is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex	a)⊠ accepted or b)□ objected to drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati ity documents have been receive ı (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate

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DETAILED ACTION

This Office Action is in response to a Request for Continued Examination filed August 29, 2006.

Claims 1-20 are currently pending. Any rejection not set forth below has been overcome by the current Amendment.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's admitted Prior Art, and further in view of Jones et al. (US 6,453,355), herein referred to as Jones.

As per claims 1,16, Applicant discloses a Motion Picture Experts Group (MPEG-4) encoder comprising:

an .mp4 file track media generator configured for generating, as a first output of encoding by said encoder, an .mp4 file comprising, as encoded content, a media track (see page 1, lines 21-23); and

a fragmentation structure file generator configured for generating a fragmentation structure file as a second output of encoding by said encoder with said first output, both outputs being configured as input for a hinter program configured for creating as output, based on said second output and an output of said media track generator (see page 2, lines 21-29), a hinted file that comprises said output of said media track and a hint track that contains pre-segmentation information usable at a server in segmenting, into network packets, said output of said media track generator in said hinted file (see page 2, lines 8-10), said hinted file being configured for each MPEG-4 data entity in said output of said media track generator in said hinted file (see page 1, lines 24-27) and, for each of said packets for said entity, a size in bits of a fragment to be created by said segmenting (see page 2, lines 14-16).

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Although the system disclosed by Applicant Admitted Prior Art shows substantial features of the claimed invention (discussed above), it fails to disclose the fragmentation structure file generated simultaneously as a separate file, said fragmentation file not being network specific, and the hinted file being configured with a specification of a number of network packets.

Nonetheless, these features are well known in the art and would have been an obvious modification of the system disclosed by the Applicant, as evidenced by Jones.

In an analogous art, Jones discloses a system for processing media data transmitted in a data communication medium (see Abstract). Jones additionally shows that the fragmentation file is stored as a separate file during encoding (see column 16, lines 62-67), said fragmentation file not being network specific (see column 11, lines 37-43) and that steps in creating the encoded media file may be done simultaneously (see column 8, lines 58-65). Further Jones discloses the hinted file being configured with a specification of a number of network packets (see column 26, lines 3-5).

Given the teaching of Jones, a person having ordinary skill in the art would have readily recognized the desirability and advantages of modifying Applicants Admitted Prior Art by employing the teaching of Jones, in order to play media over different transport types without making any additional changes to the media itself.

As per claim 2, Applicants Admitted Prior Art in view of Jones further discloses a processor receiving a coded signal from a computer-readable medium, said signal being created from output of a Motion Pictures Experts Group 4 (MPEG-4) (see Applicant Prior Art page 1, lines 21-23) encoder to form a bitstream having two sides and including, on one of the sides, media data stored in an MPEG-4 file format and, on the other of the sides, a pre-segmentation information, said pre-segmentation information not being network specific (see column 11, lines 37-43), indicating how to fragment MPEG-4 data entities in said media data (see Jones Fig. 4) in order to match size resulting packets for transmission on a transmission network to a size specific to said transmission network (see Jones column 9, lines 24-35).

As per claims 3,14,17, Applicants Admitted Prior Art in view of Jones further disclose an MPEG-4 terminal having a processor for receiving a coded signal, said processor being configured for reading the received signal according to a file structure having the following syntax:

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Loop on MPEG-4 Access Units until end-of-file, and, for each Access Unit:

Read a specified number N of fragments;

Loop on fragments until N, wherein for each fragment:

Read size, in bits, of the fragment;

End-of-loop on fragments;

End-of-loop on Access Units (see Jones Fig. 11, where these steps are implied, if not inherent, for a receiving system to accept the entire stream of data).

As per claims 4, Applicants Admitted Prior Art in view of Jones further disclose a hinter program is provided for generating, from an .mp4 file, a new .mp4 file containing hit tracks that are both media and network specific, said new .mp4 file being transmitted for the reception by said processor as said coded signal (see Jones 13, lines 39-54).

As per claim 5, Applicants Admitted Prior Art in view of Jones further disclose that the fragmentation structure file generator is further configured so that said generating of said fragmentation structure file occurs in response to a request for said content by a client of said server (see Jones column 7, lines 51-59).

As per claims 6,18, Applicants Admitted Prior Art in view of Jones further disclose that the server is video-on-demand server (see Jones column 8, line 66 – column 9, line 11).

As per claim 7, Applicants Admitted Prior Art in view of Jones further disclose that the .mp4 file is configured for storing a plurality of media tracks, and respective hint tracks, said respective hint tracks including, for adaptation of encoded content of the plural media tracks to a size of said network packets of a given type of network (see Jones column 7, lines 51-59 and column 22, lines 40-47), said presegmentation information indicating how to fragment MPEG-4 data entities stored in said plural media tracks to match said size, said pre-segmentation information being derived from information in said fragmentation structure file for structuring a coded bit stream into entities that are independent to recover some context even if a packet from among said network packets is lost (see column 10, lines 32-46).

As per claim 8, Applicants Admitted Prior Art in view of Jones further disclose the server comprising the encoder and said hinter program (see Jones Fig. 13).

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As per claims 9,19, Applicants Admitted Prior Art in view of Jones further disclose archiving the fragmentation structure file for subsequent retrieval as said input (see Jones column 7, lines 51-59).

As per claims 10,20, Applicants Admitted Prior Art in view of Jones further disclose that the retrieval occurs in response to a request, by a client of said server, for content (see Jones column 7, lines 51-59).

As per claim 11, Applicants Admitted Prior Art in view of Jones further disclose that the fragmentation structure file generator is further configured so that said generating of said fragmentation structure file occurs in response to a previous request, by a client of said server, for content (see Jones column 27, lines 18-29).

As per claim 12, Applicants Admitted Prior Art in view of Jones further disclose that the coded signal is received as a hinted file comprising an output of a media track generator and a hint track that contains pre-segmentation information usable at a server in segmenting, into network packets, said processor performing the segmenting on the received hinted file (see Jones column 10, lines 32-46).

As per claim 13, Applicants Admitted Prior Art in view of Jones further disclose that the hinted file is transmitted, for reception by said processor, as a bit stream having two sides and that comprises, on one of said two sides, said output of said media track generator and, on the other of said two sides, said hint track (see Jones Fig. 4).

As per claim 15, Applicants Admitted Prior Art in view of Jones further disclose that the size of the fragment to be read is represented in said bit stream by ASCII delimited by a separator character (see Jones column 24, lines 26-30 and column 2, lines 16-49).

Response to Arguments

- 3. Applicant's arguments with respect to claims 1-20 have been considered but are moot in view of the new ground(s) of rejection.
- (A) Applicant contends that Applicants Admitted Prior Art in view of Jones fails to disclose the fragmentation file not being network specific.

In considering (A), the Examiner respectfully disagrees. The Examiner would like to direct the Applicant to Jones (column 11, lines 37-43), where it is believed that Jones successfully discloses that the fragmentation file is not network specific. The Examiner believes that being protocol-neutral as described by Jones is equivalent to not being network specific.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Philip J. Chea whose telephone number is 571-272-3951. The examiner can normally be reached on M-F 7:00-4:30 (1st Friday Off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Glenn Burgess can be reached on 571-272-3949. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Philip J Chea Examiner Art Unit 2153

PJC 11/6/06

KRISNA LIM PRIMARY EXAMINER